

As a below named inventor I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

RECOMBINANT FUSOBACTERIUM NECROPHORUM LEUKOTOXIN VACCINE AND PREPARATION THEREOF

the specification of which: (complete (a), (b) or (c) for type of application)

REGULAR OR DESIGN APPLICATION

(a) ☐ is attached hereto.

(b) ☒ was filed on April 24, 2001 as Application Serial No. 09/841,786 and was amended on(if applicable).

PCT FILED APPLICATION ENTERING NATIONAL PHASE

(c) ☐ was described and claimed in International Application No. _____ filed _____ and as amended on _____ (if any).

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

☐ In compliance with this duty there is attached an information disclosure statement. 37 CFR 1.97.

PRIORITY CLAIM

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

(complete (d) or (e))

(d) ☒ no such applications have been filed.

(e) ☐ such applications have been filed as follows

EARLIEST FOREIGN APPLICATION(S), IF ANY FILED WITHIN 12 MONTHS PRIOR TO SAID APPLICATION

| Country | Application No. | Date of Filing | Date of Issue | Priority Claimed |
|---------|-----------------|----------------|---------------|--|
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO |
| | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO |

ALL FOREIGN APPLICATION(S), IF ANY FILED MORE THAN 12 MONTHS PRIOR TO SAID APPLICATION

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|--|--|--|--|--|
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PROVISIONAL

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States application(s) listed below:

| Application Serial No. | Filing Date | Status (patented, pending, abandoned) |
|------------------------|-------------|---------------------------------------|
|------------------------|-------------|---------------------------------------|

CONTINUATION-IN-PART

(Complete This Part Only If This Is A Continuation-In-Part Application)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a), which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application:

| Application Serial No. | Filing Date | Status (patented, pending, abandoned) |
|------------------------|----------------|---------------------------------------|
| 09/558,257 | April 25, 2000 | Pending |

POWER OF ATTORNEY

As a named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

| | | | |
|----------------------|--------|--------------------|---------|
| Robert D. Hovey | 19,223 | Tracy L. Bornman | 42,347 |
| Warren N. Williams | 19,156 | Tracey S. Truitt | 43,205 |
| Stephen D. Timmons | 26,513 | Scott R. Brown | 40,535 |
| John M. Collins | 26,262 | Gerhard P. Shipley | 45,682 |
| Thomas H. Van Hoozer | 32,761 | David V. Ayres | 46,529 |
| Thomas B. Luebbering | 37,874 | Kameron D. Kelly | 44,181 |
| Andrew G. Colombo | 40,565 | Lara D. Lewis | P48,161 |

SEND CORRESPONDENCE TO:
HOVEY, WILLIAMS, TIMMONS & COLLINS
2405 Grand, Suite 400
Kansas City, Missouri 64108

DIRECT TELEPHONE CALLS TO:

(816) 474-9050

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

| | | | |
|--|--|--------|--|
| Full name of sole or first inventor | T.G. NAGARAJA | | |
| Inventor's Signature | <i>T. G. Nagaraja</i> | | |
| Date | Country of Citizenship | U.S.A. | |
| Residence | 4112 BERKSHIRE CIR, Manhattan, Kansas 66507-3 TG | | |
| Post Office Address | 4112 BERKSHIRE CIR, Manhattan, Kansas 66507-3 TG | | |
| Full name of second joint inventor, if any | GEORGE C. STEWART | | |
| Inventor's Signature | <i>George C. Stewart</i> | | |
| Date | Country of Citizenship | Japan | |

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|---|--|------------------------|--------|
| Residence | 5006 Coachman Road, Manhattan, Kansas 66502 | | |
| Post Office Address | 5006 Coachman Road, Manhattan, Kansas 66502 | | |
| Full name of third joint inventor, if any | SANJEEV K. NARAYANAN | | |
| Inventor's Signature | | | |
| Date | | Country of Citizenship | India |
| Residence | 512 Thurston, Manhattan, Kansas 66502 | | |
| Post Office Address | 512 Thurston, Manhattan, Kansas 66502 | | |
| Full name of fourth inventor, if any | M.M. CHENGAPPA | | |
| Inventor's Signature | <i>Chengappa</i> | | |
| Date | 5/25/01 | Country of Citizenship | U.S.A. |
| Residence | 2100 Tamarron Terrace, Manhattan, Kansas 66502 | | |
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| Post Office Address | 5006 Coachman Road, Manhattan, Kansas 66502 | | |
| Full name of third joint inventor, if any | SANJEEV K. NARAYANAN | | |
| Inventor's Signature | <i>N. Sanjeev Kumar</i> <i>06/04/01</i> | | |
| Date | Country of Citizenship | | India <i>AK</i> |
| Residence | 512 Thurston, Manhattan, Kansas 66502 <i>2745, W. Walnut Hill Ln #241, IRVING, TX 75039</i> | | |
| Post Office Address | 512 Thurston, Manhattan, Kansas 66502 <i>2745, W. Walnut Hill Ln #241, IRVING, TX 75039</i> | | |
| Full name of fourth inventor, if any | M.M. CHENGAPPA <i>AK</i> | | |
| Inventor's Signature | | | |
| Date | Country of Citizenship | | U.S.A. |
| Residence | 2100 Tamarron Terrace, Manhattan, Kansas 66502 | | |
| Post Office Address | 2100 Tamarron Terrace, Manhattan, Kansas 66502 | | |



ASSIGNMENT

WHEREAS, WE, T. G. NAGARAJA of ^{4112 Berkshire Cir., 3}~~731 DeHoff Drive~~, Manhattan, Kansas, 66502, ^{TG}
GEORGE C. STEWART of 5006 Coachman Road, Manhattan, Kansas 66502, and SANJEEV
K. NARAYANAN of ^{2745 W. Walnut Hill Ln # 291, Irving, TX 75032 DJ}~~512 Thurston, Manhattan, Kansas 66502~~ and M. M. CHENGAPPA OF
^{4104 Wellington Dr., MME 3 MME}~~2100 Tamaroon Terrace~~, Manhattan, KS 66502, have jointly invented certain new and useful
improvements in

RECOMBINANT FUSOBACTERIUM NECROPHORUM

LEUKOTOXIN VACCINE AND PREPARATION THEREOF

for which we are about to make application for Letters Patent of the United States; and

WHEREAS, KANSAS STATE UNIVERSITY RESEARCH FOUNDATION, a
Corporation duly organized under the laws of the State of Kansas, and having its principal place
of business at 1500 Hayes Drive, Manhattan, Kansas, 66502, is desirous of acquiring an interest
in, to and under said invention, said application and any and all Letters Patent which may be
granted for or upon said invention in the United States of America and all countries foreign
thereto.

NOW, THEREFORE, to all whom it may concern be it known that for good and valuable
consideration, the receipt and sufficiency of which is hereby acknowledged, WE, T. G.
NAGARAJA, GEORGE C. STEWART, SANJEEV K. NARAYANAN, and M. M.
CHENGAPPA, as co-inventors, have sold, assigned and transferred, and by these presents do
sell, assign and transfer unto said KANSAS STATE UNIVERSITY RESEARCH FOUNDA-
TION, the full and exclusive right, title and interest, throughout the world, in, to and under the
following:

(a) said invention as fully set forth and described in the specification prepared, and executed by each of such as co-inventors on even date herewith preparatory to obtaining Letters Patent of the United States therefor;

(b) said application;

(c) any and all refilings and continuations of said application;

(d) any and all Letters Patent of the United States of America which may issue from said application, refilings, division and continuations;

(e) any and all reissues of said Letters Patent of the United States of America;

(f) any and all applications for Letters Patent upon said invention which may hereafter be filed in any and all countries foreign to the United States of America;

(g) any and all refilings, divisions and continuations of said foreign-filed applications;

(h) any and all Letters Patent of countries foreign to the United States of America which may issue from the said foreign-filed applications, refilings, divisions and continuations;
and

(i) any and all extension of, and additions to, said Letters Patent of countries foreign to the United States of America.

ALL of the above shall be held and enjoyed by said KANSAS STATE UNIVERSITY RESEARCH FOUNDATION for its own use and behoof, and for its successors, legal representatives and assigns, to the full end of the term for which said Letters Patent may be granted, and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent in accordance with this Assignment.

Executed this 4th day of JUNE, 2001.

T. G. NAGARAJA

GEORGE C. STEWART

N. Sanjeev Kumar
N. Sanjeev Kumar

SANJEEV K. NARAYANAN

M. M. CHENGAPPA

STATE OF TEXAS)
) SS.
COUNTY OF DALLAS)

On this 4th day of JUNE, 2001, before me personally appeared ~~T. G. NAGARAJA, GEORGE C. STEWART, SANJEEV K. NARAYANAN, and M. M. CHENGAPPA~~, to me known to be the persons described in and who executed the foregoing instrument, and they duly acknowledged to me that they executed the same for the uses and purposes therein set forth.

Silvia Aranda

Notary Public

My Commission Expires:

11-25-02

Executed this 25 day of May, 2001.

T. G. Nagaraja
T. G. NAGARAJA

George C. Stewart
GEORGE C. STEWART

SANJEEV K. NARAYANAN

Chengappa
M. M. CHENGAPPA

STATE OF Kansas)
) SS.
COUNTY OF Riley)

On this 25 day of May, 2001, before me personally appeared T. G. NAGARAJA, GEORGE C. STEWART, SANJEEV K. NARAYANAN, and M. M. CHENGAPPA, to me known to be the persons described in and who executed the foregoing instrument, and they duly acknowledged to me that they executed the same for the uses and purposes therein set forth.

Donna Springer
Notary Public

My Commission Expires:

10-19-03

